

1. Component NSA/CSS Defense	FY 2005 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEB 2004
3. INSTALLATION AND LOCATION NSA, Fort George G. Meade, Maryland		4. PROJECT TITLE Reconfigure Chilled Water, Phase II		
5 PROGRAM ELEMENT NFIP 0301011G	6. CATEGORY CODE 82700	7. PROJECT NUMBER	8. PROJECT COST (\$000) 3,417	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITY</u>				
Chilled Water Distribution Modifications	LS			3079
<u>SUPPORTING FACILITIES</u>				-0-
ESTIMATED CONTRACT COST				
CONTINGENCY PERCENT (5.00%)				3079
SUBTOTAL				<u>154</u>
				3233
SUPV, INSP, & OVERHEAD (5.70%)				
TOTAL REQUEST				<u>184</u>
TOTAL REQUEST (ROUNDED)				3417
				3400
INSTALLED EQUIPMENT – OTHER APPROPRIATIONS				-0-
DESCRIPTION OF PROPOSED CONSTRUCTION				
<p>This project will provide piping, valves, chillers, pumps and associated components required to effectively direct chilled water to mission critical operational equipment. The automated controls will be connected to the Facilities Control Center (FCC), which will serve as the central control point for the chilled water distribution system. This initiative will have all of the necessary components and connectivity required to be operative from the FCC. (U)</p>				
<p>11. <u>REQ</u>: N/A Adequate: N/A Substandard: N/A</p>				
<p><u>PROJECT</u>: Construct Chilled Water distribution modifications throughout the OPS1, OPS2A, OPS2B, and Headquarters buildings at NSA, Fort Meade, Md. (Current Mission)</p>				

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<p><u>11. REQUIREMENT (con't):</u></p> <p>This project is identified in our Reliability Plan for Critical Mission Systems as essential to provide an up-to-date, fully functional, flexible, automated and redundant chilled water distribution system. This project is consistent with our Chilled Water Architecture Plan that outlines our current, near term and long-range plans for our chilled water system. This initiative is required to increase the reliability/availability of the chilled water system that supports critical mission operational equipment in the "Big Four" (OPS1, OPS2A, OPS2B, and HQS) buildings. This project will increase chilled water reliability by providing alternate paths, redundant water sources and the necessary automation to quickly and remotely control the chilled water system that support mission critical operational systems by establishing a building level, common distribution system for the chilled water in the "Big Four".</p> <p><u>CURRENT SITUATION:</u></p> <p>The existing Chilled Water System has been modified and extended to the point that it far exceeds its designed capabilities. The System is very completed antiquated, non-flexible manually operated and incapable of systematic future expansion. The system is key to operations for critical mission systems.</p> <p><u>IMPACT IF NOT PROVIDED:</u></p> <p>There exist several single points of failure in the existing chilled water system, which could severely limit the ability to produce and deliver chilled water to mission critical operational equipment. (U)</p> <p><u>ADDITIONAL:</u></p> <p>Related Projects/Systems: N/A.</p> <p>Alternate methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. A parametric cost estimate based on project engineering design was used to develop this budget estimate.</p>		

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12. SUPPLEMENTAL DATA

A. Estimated Design Data

1. Status

a. Date Design Started	APR 2004
b. Percent Completed as of January 1, 2004	0%
c. Date 35 % Design Completed	AUG 2004
d. Date Design Completed	NOV 2004
e. Type of Design Contract	Design-Bid-Build

2. BASIS

a. Standard or Definite Design	Yes ___ No <u>X</u>
b. Where Design Was Most Recently Used	<u>N/A</u>

3. COST (\$000) = c = a + b = d + e

	<u>308</u>
a. Production of Plans and Specifications	<u>205</u>
b. All Other Design Costs	<u>103</u>
c. Total	<u>308</u>
d. Contract	<u>308</u>
e. In-house	<u>0</u>

4. CONSTRUCTION CONTRACT AWARD FEB 2005

5. CONSTRUCTION START MAR 2005

6. CONSTRUCTION COMPLETE MAR 2006

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year Appropriated or Requested	Cost <u>(\$000)</u>
N/A			

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